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APPLICATION NO.	IO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/830,871		08/03/2001	Arie Cornelis Besemer	B041745JGD/S	5309	
466	7590	10/27/2004		EXAMINER		
YOUNG &	tHOM	PSON	MAIER, LEIGH C			
745 SOUTH 2ND FLOO		FREET	ART UNIT	PAPER NUMBER		
ARLINGTO		22202	1623	1623		
			DATE MAILED: 10/27/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

*		Applicati	on No.	Applicant(s)					
Office Action Summary			71	BESEMER ET AL.					
			r	Art Unit					
		Leigh C.		1623					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)	Responsive to communication(s) filed or	n <u>10 August 200</u> -	<u>4</u>						
,	☐ This action is FINAL . 2b)⊠ This action is non-final.								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
5)□ 6)⊠ 7)⊠	Claim(s) <u>16-33</u> is/are pending in the app 4a) Of the above claim(s) <u>22-29</u> is/are w Claim(s) <u>is/are allowed.</u> Claim(s) <u>16-20 and 30-33</u> is/are rejected Claim(s) <u>21</u> is/are objected to. Claim(s) <u>are subject to restriction</u>	ithdrawn from co							
Applicati	on Papers								
9)[The specification is objected to by the Ex	xaminer.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen	t(s)								
1) Notic	e of References Cited (PTO-892)		4) Interview Summary						
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-t mation Disclosure Statement(s) (PTO-1449 or PTC r No(s)/Mail Date		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:)-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 10, 2004 has been entered.

Claims 16 and 18-21 have been amended. Claims 30-33 are newly added. Claims 16-33 are pending. Claims 22-29 have been withdrawn as being drawn to a non-elected invention. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

Claims 16-19 and 30-33 are rejected under 35 U.S.C. 102(b) as being anticipated by LEROY et al (US 3,553,193), as set forth in the Office action dated February 25, 2003 and further discussed in the Office action dated September 8, 2003.

Claims 16 and 18 have been amended so that the products are described as "having at least partially been oxidized to dialdehyde groups, and a part of the aldehyde groups having been oxidized to carboxylic groups." Claims 30-33 recite similar products with the requirement that at least part of the 1,2-dihydroxyethylene groups are oxidized to monoaldehyde-monocarboxylic groups.

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With regard to claims 16 and 18, determination of patentability of a product is based on the final product itself and is not dependent upon some intermediate state attained during processing.

As discussed previously, LEROY discloses starch oxidation products having a range of aldehyde/carboxyl ratios. The product in Table I prepared at pH 10.0 and 0°C has an approximate 50/50 ratio of aldehyde and carboxyl groups. Therefore, for every oxidized 1,2-dihydroxyethylene unit, the product contains about 1 aldehyde and 1 carboxyl group. It would appear more likely than not that this product in particular would include ring-opened segments with monoaldehyde-monocarboxylic groups. Since the Office does not have the facilities for preparing the claimed materials and comparing them with prior art inventions, the burden is on Applicant to show a novel or unobvious difference between the claimed product and the product of the prior art. See *In re Best*, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977) and *In re Fitzgerald*, 619 F.2d 67, 205 USPQ 594 (CCPA 1980).

Claims 16 and 20 are again rejected under 35 U.S.C. 102(b) as being anticipated by BATTISTA et al (US 3,111,513), as set forth in the Office action dated February 25, 2003 and further discussed in the Office action dated September 8, 2003.

Claim 16 has been amended as set forth above. Again, determination of patentability of a product is based on the final product itself and is not dependent upon some intermediate state attained during processing.

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Allowable Subject Matter

Claim 21 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, as discussed in the previous Office action.

Examiner's hours, phone & fax numbers

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leigh Maier whose telephone number is (571) 272-0656. The examiner can normally be reached on Tuesday, Wednesday, or Friday 7:00 to 3:30 (ET).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. James O. Wilson (571) 272-0661, may be contacted. The fax number for Group 1600, Art Unit 1623 is (703) 872-9306.

Visit the U.S. PTO's site on the World Wide Web at http://www.uspto.gov. This site contains lots of valuable information including the latest PTO fees, downloadable forms, basic search capabilities and much more.

Leigh C. Maier
Patent Examiner

October 26, 2004